"No Unauthorized Discharge to Waters of the U.S." (Mine Site)

Project Feature	Source of Groundwater Flow	FEIS/Permit Application Assumed Flow Rate to Groundwater (gpm)
Tailings Basin	Flow bypassing FTB Seepage Containment System	20[(1)]
Category 2/3 Waste Rock Stockpile (Temporary)	Liner leakage	0.019[(2)]
Ore Surge Pile (Temporary)	Liner leakage	0.0012[(2)]
Wastewater Treatment Facility (WWTF) Equalization Basins	Liner leakage	0.014[(2)]
Overburden Storage and Laydown Area	Infiltration	14[(2)]
Category 1 Waste Rock Stockpile	Flow bypassing Category 1 Stockpile Groundwater Containment System	6.8[(3)]

(1) Information from Table 5.2.2-37 of the FEIS
(2) Information from Table 5.2.2-27 of the FEIS
(3) Mine Year 11 (maximum) flow to bedrock that bypasses the containment system and does not discharge to the West Pit. Information from Section 5.2.2 (p.5-145) of the FEIS

Overview of Proposed Performance Monitoring (Mine Site):

- Monitor the performance of engineering infrastructure
- Includes monitoring wells, paired monitoring wells, paired piezometers, and stockpile underdrains (or equivalent)

Station Type	Location	Purpose	How it will be evaluated
Surficial well(s)	Downgradient of WWTF	Monitor performance of WWTF liner system	Compare water quality with baseline data
Underdrain sumps or equivalent[(1)]	Downgradient of stockpiles	Monitor performance of stockpile liner systems	Compare surficial aquifer water quality with baseline data
Surficial paired wells and piezometers	Along containment system cutoff wall	Monitor performance of Category 1 Waste Rock Stockpile Groundwater Containment System	• Monthly comparison of interior and exterior water levels for hydraulic head • Quarterly evaluation of exterior water quality in wells

(1) If future geotechnical investigations determine that underdrain systems are not needed for stockpile stability, then these monitoring stations will be lysimeters or monitoring wells, installed at locations on the downgradient perimeter of the stockpiles.